



## RMPP141 NATURAL

**RMPP141 Natural** is a Polypropylene (PP) Compound specifically developed for rotational molding, available as a UV stabilised ambient ground powder. Black is also available ex stock.

**RMPP141** has excellent moldability and its enhanced properties allow it to be used in demanding applications for which polyethylene is not the optimum polymer.

**Complies** with U.S. 21 CFR F.D.A. regulation Part 177.1520 clause (c)(1.1) and (d).

**FEATURES:**

- **An excellent balance of high stiffness & high impact**
- **Good Temperature Resistance (dry & wet)**
- **High FNCT / ESCR giving improved chemical resistance**
- **Excellent Creep Resistance**
- **Improved hardness and scratch resistance**

Properties	Conditions	Units	Nominal Values	Testing Methods
<b>Physical</b>				
Melt Flow Rate	230 <sup>0</sup> C/2.16kgs	g/10 min	13	ASTM D1238
Density		g/cm <sup>3</sup>	0.900	ASTM D1505
<b>Mechanical &amp; Thermal</b>				
Tensile stress <sup>3</sup>	At yield	psi	3900	ASTM D638
Tensile strain <sup>3</sup>	% At yield	%	7.5	ASTM D638
Tensile Modulus <sup>3</sup>		psi	203,000	ASTM D638
Flexural Modulus <sup>3</sup>		psi	145,000	ASTM D790
FNCT <sup>1</sup> – 2% Ige * – 5MPa- 122 <sup>0</sup> F – 6MPa- 122 <sup>0</sup> F		Hours Hours	>300 170	ISO16770 – 10x10mm x 1.6mm notch
ESCR	2% Igepal *	Hours	> 1000	ASTM D1693
Shore D Hardness <sup>1</sup>			62	ASTM D2240
HDT <sup>1</sup>	66 PSI	Deg F	240	ISO 75-2 4mm Edgewise
Charpy <sup>3</sup>	73 <sup>0</sup> F 32 <sup>0</sup> F	FtIbt/in <sup>2</sup> FtIbt/in <sup>2</sup>	18 1.23	ASTM D6110
ARM Impact <sup>2</sup>	73 <sup>0</sup> F ¼" thick	FtIb	104	ARM Standard 15lb dart
ARM Impact <sup>2</sup>	32 <sup>0</sup> F ¼" thick	FtIb	70	ARM Standard 10lb dart

**Notes:** <sup>1</sup> Compression moulded    <sup>2</sup> Roto moulded    <sup>3</sup> Injection Moulded    \* Or equivalent

**Important:** *The information contained in this document is of a general nature only and is intended to provide an indication of the potential properties and benefits of a particular polypropylene compound. The statistical and other information provided in this document has been determined in laboratory test conditions. Accordingly, there may be differences in performance in a production environment including having regard to the materials used. The information contained in this document should not be used as a sole basis for production or manufacturing purposes. Independent testing verification and independent professional advice should be obtained before making a decision to use any product or to apply any method or process. To the full extent permitted by law, PSD Rotoworx Pty Limited (ACN 166 016 244) ("PSD Rotoworx"), its related entities, their directors and employees: (i) give no warranty or representation that the information contained in this document is accurate and complete in every particular, and (ii) disclaim all liability for reliance on the information contained in this document.*